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WATER SUPPLY OUTLOOK FOR IDAHO



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

IDAHO STATE DEPARTMENT OF WATER ADMINISTRATION

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
APR. 1, 1976

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SURVEYOR ENROUTE TO THE MT. BALDY ARIZONA SNOW COURSE
SCS PHOTO AZ-5460

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

|||||

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SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

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|||||

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR APRIL 1, 1976

Snowfall during the month of March was normal or above on all watersheds of Idaho with the exception of the Clearwater River drainage, which dropped slightly in relation to average. Though snow water equivalent improved during the month, five watersheds have less than average as of April 1. The Little Wood River at 77% and the Big Lost River at 81% of average represent the poorest conditions in the state, while the Priest River, Camas-Beaver Creeks and Big Wood River drainages range from 91 to 94% of normal. Snow water on all other watersheds ranges from 102% of average on the Weiser River to a high of 185% on the Palouse River.

Water supplies for the coming season are expected to be adequate throughout the state. Forecasts of seasonal runoff range from a low of 77% of normal for the Big Lost near Mackay to a high of 136% of average for the Teton River near St. Anthony. All the major streams with below normal snow water have storage facilities to properly manage the runoff and assure adequate supplies. There is a possibility that shortages might occur late in the season on small streams without storage facilities.

Reservoir storage is good to excellent in all systems and many reservoirs are being drafted at this time in anticipation of high volume runoff when the spring melt occurs. All major reservoirs are expected to be filled by the beginning of the irrigation season.

In general, streamflows were above normal throughout the state during the month but no established flood stages were reached.

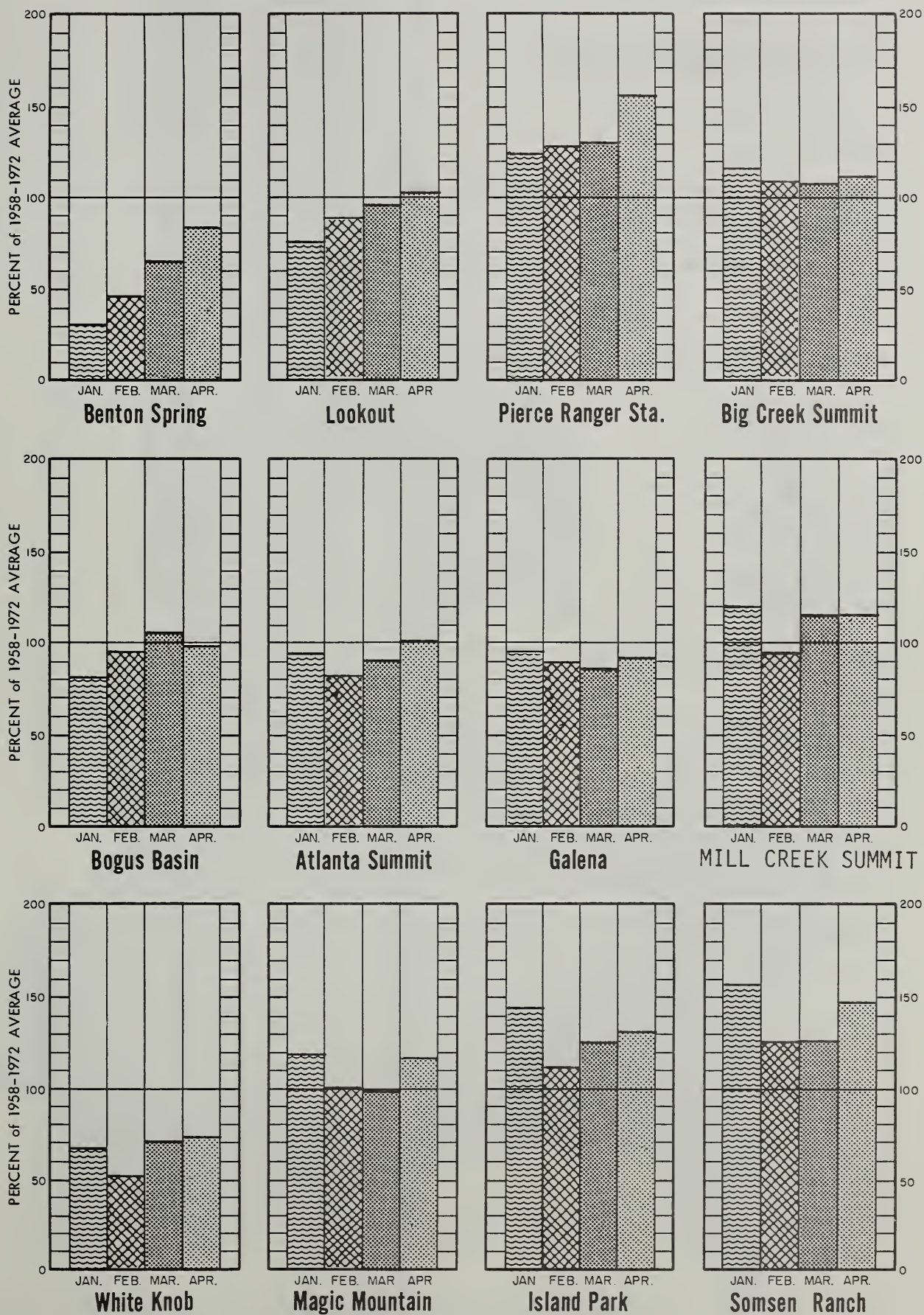
March was cooler and drier than normal at most of the valley reporting points in Idaho. Temperatures were below normal at nearly all reporting points. Precipitation was below normal at most valley locations and ranged as low as 50% of average at some locations. Accumulated valley precipitation for the November 1975 through March 1976 period was below normal in all divisions except the Clearwater and Upper Snake, which were 15% and 36% above average.

SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses

As Compared To 1958-1972 15 Yr. Average

APRIL 1, 1976



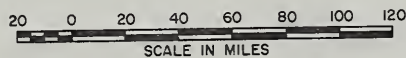
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1958-72 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	34	98	109
Pend Oreille River	89	102	113
Clark Fork River	59	106	120
Flathead River	30	95	102
Priest River	4	66	91
Spokane River	16	96	105
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	91	185
Clearwater River	24	104	106
Salmon River	15-16	94	108
Lemhi River	6	118	123
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	93	103
Big Lost River	7	77	81
Fish Creek	2	69	105
Little Wood River	4	67	77
Big Wood River	10	80	94
Canyon Creek	1-3	85	115
Boise River	15	83	109
Payette River	14-15	89	109
Weiser River	2	81	102
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	7	79	110
Goose-Trapper Creeks	3	93	122
Salmon Falls Creek	9-10	91	115
Bruneau River	4-5	83	109
Owyhee River	5	58	122
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Wyoming	28	129	136
Camas-Beaver Creeks	3	69	92
Henrys Fork River	10-11	113	125
Teton River	2-11	118	139
Willow Creek	5-9	118	149
Blackfoot River	3-4	124	139
Portneuf River	4	98	132
<u>GREAT BASIN</u>			
Bear River - Upper	11	102	112
Bear River - Lower	21	101	122
Montpelier Creek	4-6	110	124
Mink Creek	7	103	114
Cub River	3-4	105	137
Malad River	4-6	94	132

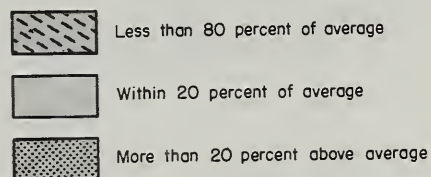
SNOW WATER DEPTHS

As percent of 1958-72 15 year average
APRIL 1, 1976

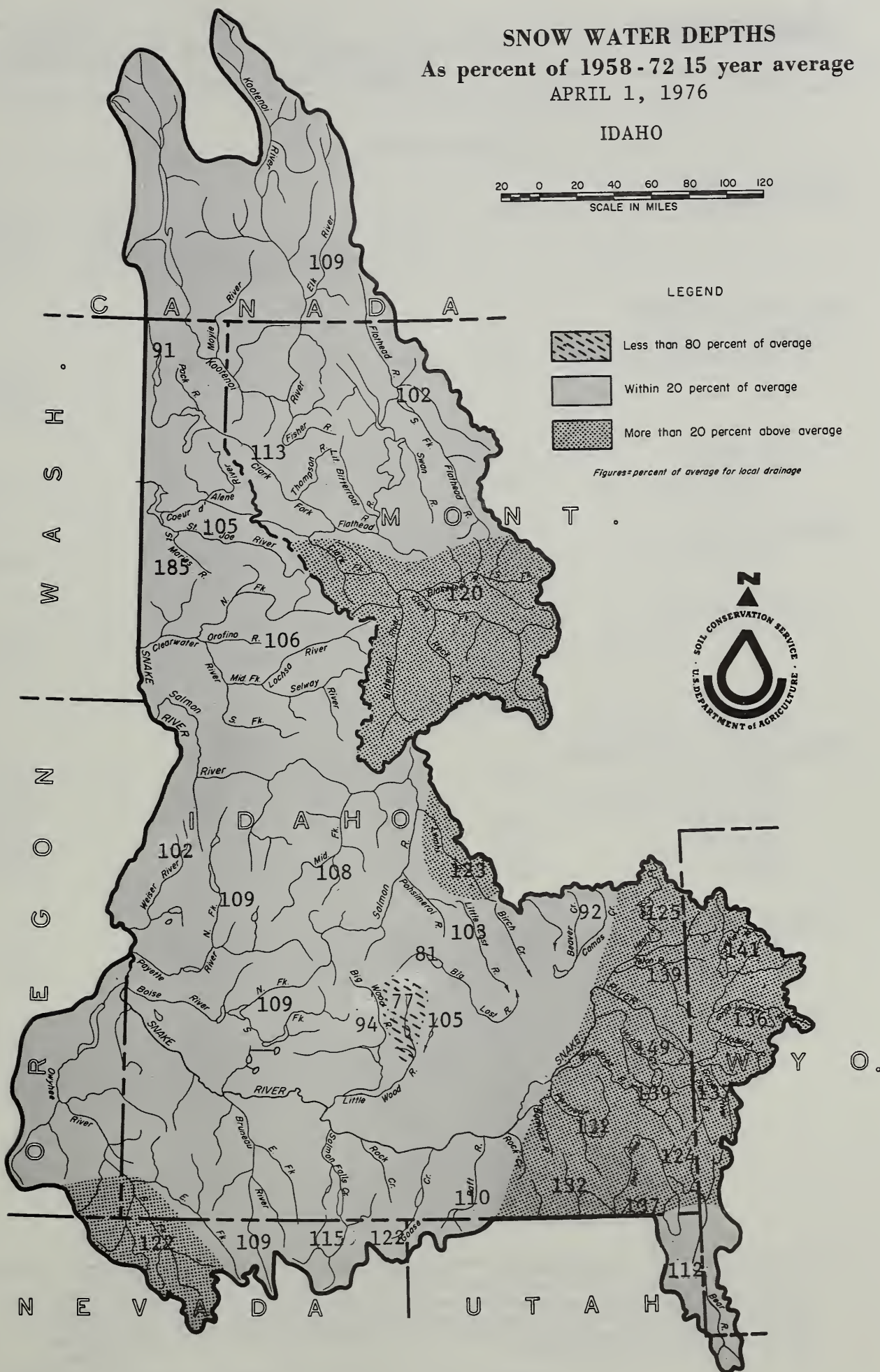
IDAHO



LEGEND



Figures: percent of average for local drainage



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	9450	104	Apr-Sep	8093	9073
		8325	105	Apr-Jul	6846	7957
		6700	104	Apr-Jun	5298	6431

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	15900	113	Apr-Sep	--	14336
		14570	113	Apr-Jul	--	13086
		12400	112	Apr-Jun	--	11325

Priest River

Priest River <u>1</u> /	(at)	825	94	Apr-Jul	--	879
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SPOKANE RIVER

Post Falls <u>2</u> /	(at)	3300	110	Apr-Sep	--	3008
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St. Joe River

Calder	(at)	1490	111	Apr-Sep	--	1345
		1430	112	Apr-Jul	--	1277

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	1175	137	Apr-Sep	--	858
Palisades Inflow <u>3</u> /		4950	134	Apr-Sep	--	3714
Heise <u>4</u> /	(nr)	5250	133	Apr-Sep	--	3946
Blackfoot <u>5</u> /	(nr)	5470	131	Apr-Jul	--	4173
Weiser	(at)	7050	108	Apr-Sep	--	6524

Henrys Fork

Ashton <u>6</u> /	(nr)	850	127	Apr-Sep	--	671
Rexburg <u>7</u> /	(nr)	1800	132	Apr-Sep	--	1364

Teton River

St. Anthony	(nr)	600	136	Apr-Sep	--	442
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(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake.2/ Observed flow corrected for storage in Coeur d'Alene Lake 3/ Corrected for storage in Jackson Lake.4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.

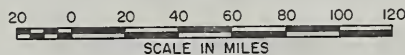
+ 1958-1972 period.

PROSPECTIVE STREAMFLOW

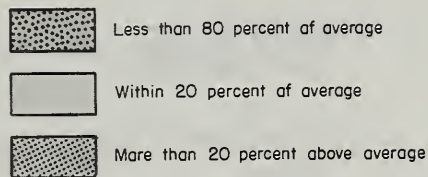
Based on Snow Surveys made on approximately

APRIL 1, 1976

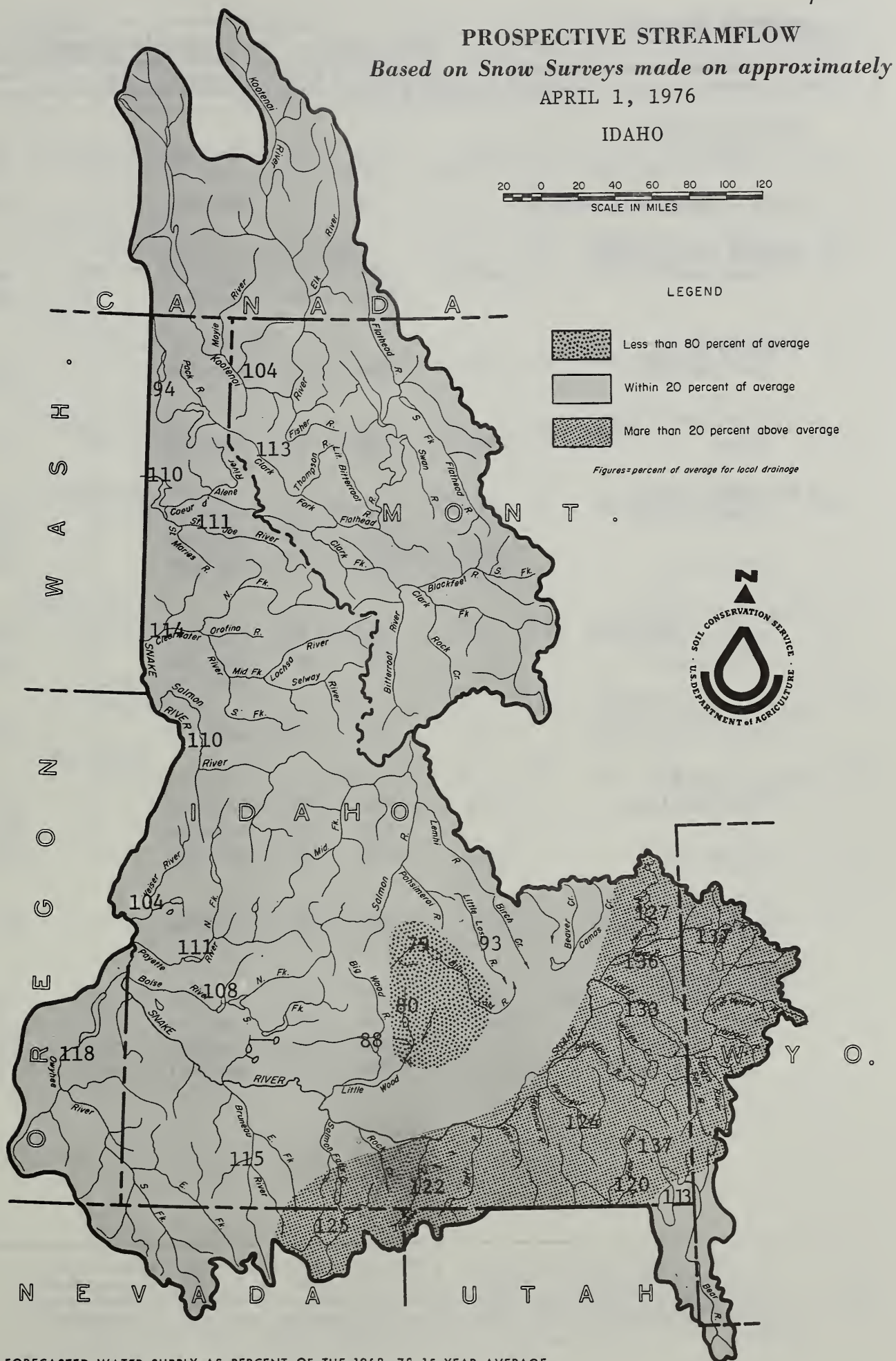
IDAHO



LEGEND



Figures=percent of average for local drainage



FORECASTED WATER SUPPLY AS PERCENT OF THE 1958-72 15 YEAR AVERAGE

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Portneuf River</u>						
Topaz	(at)	115	124	Mar-Sep	--	93
<u>Oakley Reservoir Inflow</u>		36	122	Mar-Sep	--	29.5
<u>Salmon Falls Creek</u>						
San Jacinto	(nr)	105	125	Mar-Sep	158	84
		100	125	Mar-Jul	150	80
<u>Bruneau River</u>						
Hot Springs	(nr)	260	115	Mar-Sep	--	226
<u>Little Lost River</u>						
Howe	(nr)	38	93	Apr-Sep	--	41
<u>Big Lost River</u>						
Howell Ranch	(at)	165	79	Apr-Sep	--	208
		115	79	Apr-Jun	--	146
Mackay <u>1/</u>	(nr)	140	77	Apr-Sep	--	183
<u>Big Wood River</u>						
Magic Reservoir		265	88	Apr-Sep	--	301
Inflow <u>2/</u>		275	89	Mar-Jul	--	310
<u>Little Wood River</u>						
High Five Creek	(ab)	75	80	Apr-Sep	--	94
<u>Boise River</u>						
Twin Springs	(nr)	780	108	Apr-Sep	--	720
		730	110	Apr-Jul	--	665
Boise <u>3/</u>	(nr)	1750	108	Apr-Sep	--	1612
<u>South Fork</u>						
Anderson Dam <u>4/</u>	(at)	650	108	Apr-Sep	--	603
<u>Owyhee River</u>						
Gold Cr., Nev. <u>5/</u>	(nr)	22	122	Apr-Jul	43	18
Owyhee, Nev. <u>5/</u>	(nr)	68	100	Apr-Jul	144	68
Lake Owyhee		390	118	Apr-Sep	917	332
net inflow <u>6/</u>		370	120	Apr-Jul	882	309

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir
2/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 3/ Corrected for storage in Arrow-
 rock, Anderson Ranch and Lucky Peak. 4/ Corrected for storage in Anderson Ranch Reservoir. 5/ Corrected for
 storage in Wild Horse Reservoir. 6/ From U.S.B.R. records of inflow.

[†] 1958-1972 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Payette River</u>					
Horseshoe Bend <u>1/</u> (nr)	2050	111	Apr-Sep	--	1850
<u>North Fork</u>					
Cascade <u>3/</u> (at)	635	113	Apr-Sep	--	562
Banks <u>3/</u> (nr)	825	113	Apr-Sep	--	730
<u>Weiser River</u>					
Weiser ab. Crane Creek <u>4/</u>	530	104	Mar-Sep	--	511
<u>Salmon River</u>					
Whitebird (at)	7650	110	Apr-Sep	--	6959
<u>Clearwater River</u>					
Spalding (at)	9800	114	Apr-Sep	--	8605
<u>GREAT BASIN</u>					
<u>BEAR RIVER</u>					
Harer (at)	336	113	Apr-Sep	--	297
<u>Montpelier Creek</u>					
Montpelier (nr)	17	137	Apr-Sep	--	12.4
<u>Cub River</u>					
Preston (nr)	60	120	Apr-Sep	--	50

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth. [†] 1958-1972 period.

RESERVOIR STORAGE (1,000 Ac. Ft.)

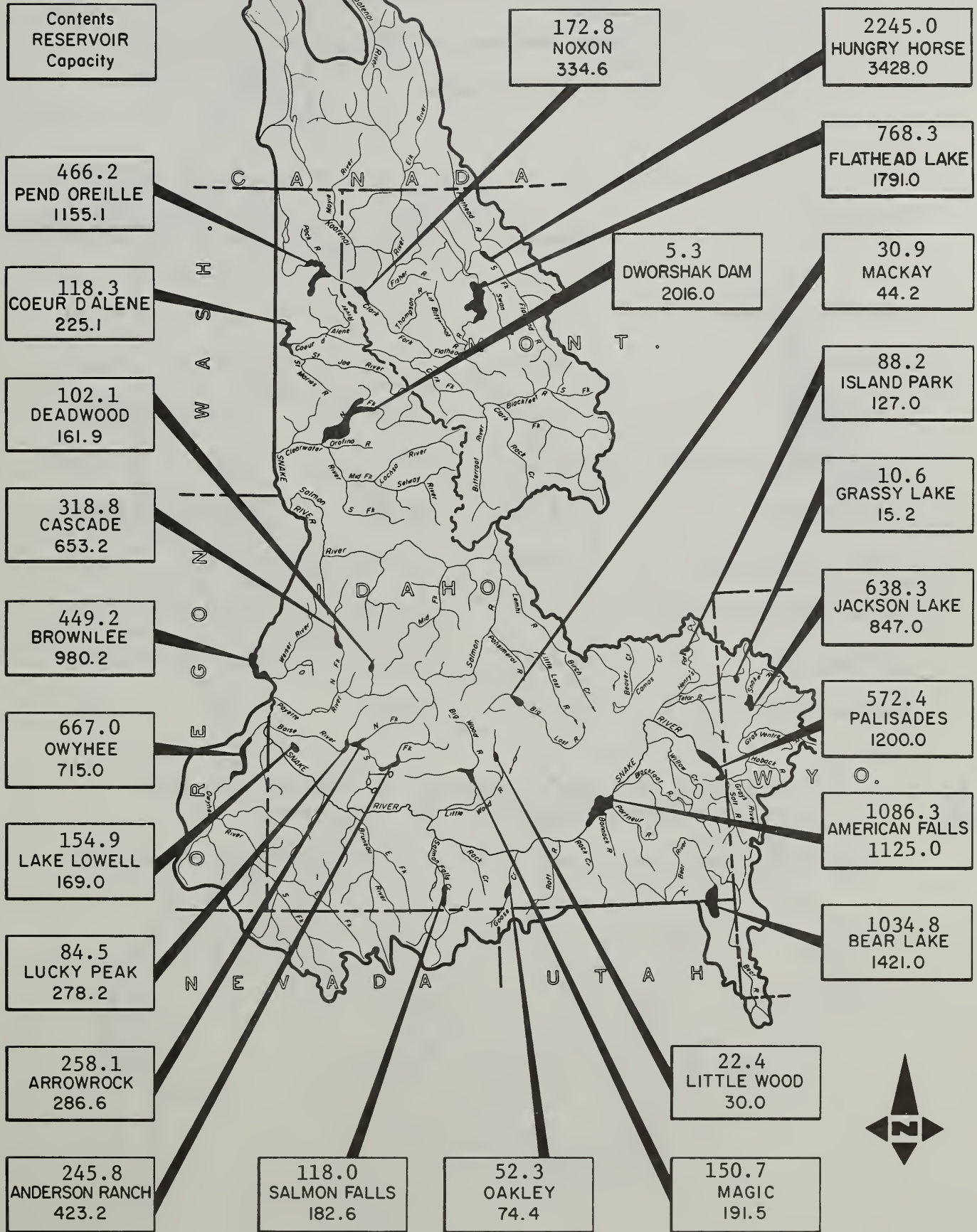
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1958-72 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2245.0	1793.0	2157.0
Flathead	1791.0	768.3	651.6	794.5
Pend Oreille	1155.1	466.2	215.4	477.1
Noxon	334.6	172.8	205.0	198.5
Spokane				
Coeur d'Alene	225.1	118.3	85.5	174.0
SNAKE BASIN				
Snake				
Jackson Lake	847.0	638.3	633.7	517.0
Palisades	1200.0	572.4	779.5	794.4
American Falls	1125.0	1086.3	1084.0	998.2
Island Park	127.0	88.2	123.3	123.7
Grassy Lake	15.2	10.6	11.1	10.5
Brownlee	980.2	449.2	411.3	324.4*
Goose-Trapper Creeks				
Oakley	74.4	52.3	46.4	22.9
Salmon Falls Creek				
Salmon Falls	182.6	118.0	68.3	42.6
Big Lost				
Mackay	44.2	30.9	29.9	32.1
Big Wood				
Magic	191.5	150.7	124.7	115.1
Little Wood				
Little Wood	30.0	22.4	16.1	16.7
Fish Creek				
Carey Valley	13.0	8.0	6.4	--
Boise				
Anderson Ranch	423.2	245.8	254.4	229.9
Arrowrock	286.6	258.1	276.9	231.5
Lucky Peak	278.2	84.5	113.5	119.2
Lake Lowell (Deer Flat)	169.0	154.9	145.7	143.3
Owyhee				
Owyhee	715.0	667.0	648.7	509.2
Payette				
Cascade	653.2	318.8	308.1	304.9
Deadwood	161.9	102.1	92.2	84.6
Weiser				
Mann Creek	11.1	8.0	5.9	--
Clearwater				
Dworshak	2016.0	5.3	17.9	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	1034.8	1110.5	974.9
*Period of Record				

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1976

50 0 50 100 150
SCALE IN MILES



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Winter		Fall - Winter	
	March 1976		Nov. 75 - Mar. 76	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U.S.	2.12	+0.27	15.22	+1.10
Flathead	0.93	-0.67	8.97	-2.16
Clark Fork	0.41	-0.34	4.45	-0.50
Pend Oreille-Spokane	2.16	-0.58	18.45	-0.30
Upper Snake	4.16	+2.64	13.80	+3.69
Snake River Plain	0.71	-0.06	4.40	-0.51
Salmon-Payette-Boise	1.39	-0.37	11.11	-0.93
Clearwater	2.33	-0.50	18.06	+2.42
Owyhee-Malheur	0.54	-0.32	3.81	-1.82

1/ Preliminary analysis and data by the National Weather Service and Meteorological Service of Canada.

2/ Departure from 15-year (1958-72) drainage division average.

C A N A D A



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

UPPER COLUMBIA BASIN

KOOTENAI RIVER

16A7	I	Halverson Creek	3	57N	3E	4850
16A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE - PRIEST RIVER

16A8	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
16A3	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

HAYDEN CREEK

16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
16B9	I	Corner Creek	22	52N	2W	3150
16B6	I	Sage Creek Saddle	10	52N	2W	4100

SPOKANE RIVER

15B8SP	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2MSP	I	Lookout	4	47N	6E	5120
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4ASP	I	Medicine Ridge	24	43N	10E	5920
16A4ASP	I	Mosquito Ridge	5	54N	2E	5110
15B5A	I	Roland Summit	26	47N	6E	5200
16C1SP	I	Sherwin	28 & 33	42N	1E	3200
15B9ASP	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

16C6	I	Crumarine Creek	24	40N	5W	3340
16C3	I	East Twin	13	40N	5W	4050
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4400
16C4P.	I	West Twin	14	40N	5W	4250

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

CLEARWATER RIVER

15D5MAP	I	Buck Meadows	26	31N	8E	5650
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7S	I	Coolwater Mountain	32	33N	8E	6200
16C16	I	Cottonwood Butte	33	32N	1W	5140
15C9A	I	Crater Meadows	2	37N	9E	6100
14C10	I	Crooked Fork	27	37N	14E	3800
16C15A	I	Elk Butte	6	40N	3E	5550
15C2AP	I	Fish Lake Airstrip	35	35N	11E	5000
15B3ASP	I	Forty-nine Meadows	6	43N	5E	4880
14C9A	I	Goat Lake	4	38N	13E	6600
16C6AP	I	Hemlock Butte	7	36N	7E	5500
15C8S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5M	I	Lolo Pass	16	38N	15E	5240
15B14AS	I	Lost Lake	16	43N	4E	6000
16D7	I	Lower Snowhaven	9	29N	3E	5300
15D6AP	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4S	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6170
15C4A	I	Shanghai Summit	7	37N	6E	4600
16D4	I	Upper Snowhaven	8 & 9	29N	3E	5600

SALMON RIVER

13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17A	I	Copes Camp	36	18N	22E	7500
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20A	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9800
13E1	M	Lemhi Pass	9	10S	15W	7480
13E23	M	Lemhi Ridge	4	10S	15W	8100
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MAP	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14E7	I	Redfish Lake Flat	34	10N	13E	6570
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E3A	I	Twin Peaks	28	15N	17E	10300
14F4AP	I	Vienna Mine	32	6N	14E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

Smith Creek	4800	4/2	134	47.0	55.4	49.1
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PEND OREILLE - PRIEST RIVER

Benton Meadow	2370	3/29	18	5.2	8.8	3.4
Benton Spring	4900	3/29	53	16.0	23.8	19.4
#Mosquito Ridge	5110	4/5	104	41.4	46.0	40.3
Schweitzer Bowl	4500	3/30	84	28.5	40.5	31.7*
Schweitzer Ridge	6100	3/30	124	44.3	70.4	48.3*

HAYDEN LAKE

Chilco Ridge	3650	3/26	30	10.3	12.5	--
Conie Ridge	3900	3/26	33	11.1	13.8	--
Corner Creek	3150	3/26	33	11.6	13.4	--
Sage Creek Saddle	4100	3/26	65	21.0	24.8	--

SPOKANE RIVER

Above Burke	4100	3/31	87	29.6	32.2	25.6*
Above Roland	4350	4/2	106	41.3	40.9	35.8*
Below Roland	3770	4/2	56	19.8	20.2	17.4*
Copper Ridge	4800	3/29	89	31.6	38.0	30.1
#Forty-nine Meadows	4880	4/5	90	29.6	30.6	34.9
Fourth of July Summit	3200	3/26	39	13.6	13.7	7.8
Granite Peak	6000	4/5	128	43.6	43.2	47.5*
Kellogg Peak	5560	4/2	103	37.9	40.4	34.7*
Lookout	5120	3/31	114	39.0	42.4	38.1
#Lost Lake	6000	4/5	164	56.2	63.2	62.1*
Lower Sands Creek	3400	3/29	70	22.4	22.2	20.7
Medicine Ridge	5920	4/5	140	47.4	43.8	48.1*
Mosquito Ridge	5110	4/5	104	41.4	46.0	40.3
Roland Summit	5200	4/2	126	47.9	44.8	39.2*
Sherwin	3200	3/31	58	18.7	20.8	13.8*
Sunset	5600	4/2	118	41.1	41.8	39.3*

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	3340	3/30	36	12.7	13.8	4.1*
East Twin	4050	3/30	48	17.2	18.6	9.6
Howard Creek	3500	3/30	24	8.4	10.1	1.4
Moscow Mountain	4400	3/30	73	23.6	25.4	17.7
West Twin	4250	3/30	42	15.0	17.0	8.7

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

CLEARWATER RIVER

Buck Meadows		5650	3/30	110	34.1	33.8	29.7*
Cayuse Airstrip		3700	4/5	32	11.2	14.2	9.6
Coolwater Mountain		6200	4/5	126	42.2	31.3	32.9*
Cottonwood Butte		5140	3/30	52	17.2	14.7	--
Crater Meadows		6100	4/5	128	45.4	46.5	48.7*
Crooked Fork		3600	3/29	52	18.5	16.8	14.3*
Elk Butte		5550	4/5	119	39.8	38.2	39.6*
Fish Lake Airstrip		5000	4/5	132	45.6	39.5	42.4
Forty-nine Meadows		4880	4/5	90	29.6	30.6	34.9
Goat Lake		6600	4/5	136	49.4	44.2	52.1*
#Granite Peak		6000	4/5	128	43.6	43.2	47.5*
Hemlock Butte		5500	4/5	148	50.4	50.4	52.9*
#Hoodoo Basin	Mont.	6000	4/2	154	62.7	56.8	53.8
#Hoodoo Basin (SP)	Mont.	6000	4/1	-	54.7	-	-
#Hoodoo Creek	Mont.	5900	4/2	146	58.4	51.7	50.3
Kit Carson Pasture		5020	3/29	42	12.9	13.8	9.1
Lolo Pass		5240	3/29	108	38.1	34.8	32.8
Lost Lake		6000	4/5	164	56.2	63.2	62.1*
Lower Snowhaven		5300	3/30	69	24.9	22.8	--
#Medicine Ridge		5920	4/5	140	47.4	43.8	48.1*
Mountain Meadows		6300	3/30	86	27.8	28.0	26.1*
#Nez Perce Pass	Mont.	6575	3/29	72	24.6	24.1	17.3
Orogrande Mountain		7800	4/5	122	41.0	38.5	40.6*
Pierce Ranger Station		3170	3/31	46	14.7	17.0	9.4
Powell Ranger Station		3400	3/29	45	17.9	15.9	12.5*
Savage Pass		6170	3/30	96	34.0	30.0	28.3
Shanghai Summit		4600	4/5	84	28.8	31.6	28.2*
Upper Snowhaven		5600	3/30	61	22.8	21.7	--

SALMON RIVER

Big Creek Summit		6600	3/26	108	41.5	43.2	37.4
Borah (A)		8250	3/31	27	6.8	--	--
#Boulder Creek		5500	3/30	69	25.0	32.0	24.8
Brundage Mountain		7560	3/30	134	52.2	53.8	49.1*
#Deadwood Summit		7000	3/30	120	45.7	50.7	47.0
Double Springs Pass (A)		8400	3/31	40	12.1	--	--
#Galena Summit		8795	3/24	81	24.8	29.0	25.0
#Gibbons Pass	Mont.	7100	3/25	83	29.1	28.6	23.7
Leatherman Pass (A)		9800	3/31	72	25.6	25.9	--
#Lemhi Pass	Mont.	7480	3/29	45	13.6	12.0	9.2
#Lemhi Ridge	Mont.	8100	3/29	50	15.5	14.6	10.4
Mill Creek Summit		8870	3/31	77	27.4	24.2	23.6
Moose Creek		6200	4/1	63	19.3	21.4	16.9
Morgan Creek		7580	3/30	55	18.0	18.5	14.1*
Morse Creek Sawmill		7120	4/1	43	12.0	12.5	--
Redfish Lake Flat		6570	4/2	49	14.8	12.7	--

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
#Rock Flat Summit	5200	3/30	63	19.0	22.5	18.6
#Secesh Summit	6520	3/27	102	37.7	42.7	37.6*
#Squaw Meadow	5800	3/27	102	36.8	42.6	37.6
Twin Peaks (A)	10300	3/31	88	31.3	30.3	--
Vienna Mine	8960	3/29	104	36.9	--	38.7
Williams Creek Summit	7800	3/31	54	17.8	15.0	13.4

Lemhi River

Above Gilmore	8200	3/31	39	11.8	8.7	10.5*
Aspen-Hall Pass (A)	8110	3/31	50	13.2	11.4	9.6*
Copes Camp	7500	3/31	41	11.0	9.0	8.4*
Hall Creek	7560	3/31	30	7.5	6.2	5.4*
Meadow Lake	9100	3/31	65	21.0	21.1	20.5*
Schwartz Lake	8500	3/31	59	19.0	14.2	13.4*

SOIL MOISTURE

SOIL MOISTURE		PROFILE (Inches)		SOIL MOISTURE (Inches)			
STATION		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	3/25	10.0	7.8	--
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	9.4	3/31	4.4	3.2*	4.2
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	3/31	3.6	1.7*	--
Meadow Lake	9100	48	4.4	3/31	2.3	Frozen	2.6
*Partially Frozen							

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Station	6750	3/29	19	4.5	4.0	3.1
Lost Garfield	6600	3/29	20	4.8	5.1	2.6
Moonshine	7450	3/29	44	10.9	12.2	11.2
Sawmill Canyon	6900	3/29	32	7.7	9.0	7.9
Wet Creek Summit	7600	3/30	40	11.1	11.8	13.1

BIG LOST RIVER

Bear Canyon	7920	3/29	51	13.4	18.3	19.4
Copper Basin	7650	3/29	31	8.6	11.4	10.5
Dry Fork	7340	3/31	48	14.2	--	--
Fishpole Lake	9350	3/29	52	16.0	22.6	--
Iron Bog	7650	3/31	34	10.0	14.6	14.6*
Leadbelt	6800	3/31	22	6.4	10.6	9.4*
#Leatherman Pass (A)	9800	3/31	72	25.6	25.9	--
Lost-Wood Divide	7900	3/29	73	23.5	25.2	23.7
Stickney Mill	7500	3/29	38	9.8	10.5	10.3
White Knob	7700	4/1	28	7.3	12.0	10.0*

FISH CREEK

Iron Mine Creek	6370	3/25	36	10.1	14.3	10.2
Telfer Ranch	6000	3/25	25	7.6	11.4	6.6

LITTLE WOOD RIVER

#Bear Canyon	7920	3/29	51	13.4	18.3	19.4
Garfield Ranger Station	6554	3/26	31	8.0	13.4	10.3
Muldoon	6300	3/26	23	6.2	11.4	7.1
Swede Peak	7650	3/26	49	14.2	19.0	17.8

BIG WOOD RIVER

Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
#Couch Summit	6950	3/30	59	17.6	23.6	19.0
Dollarhide Summit	8620	3/29	69	22.2	28.6	24.6*
Galena	7300	3/24	66	18.3	23.2	19.8
Galena Summit	8795	3/24	81	24.8	29.0	25.0
Graham Ranch	6200	3/29	41	11.6	16.4	13.6
#Lost-Wood Divide	7900	3/29	73	23.5	25.2	23.7
Mascot Mine	7900	3/29	46	13.2	14.9	13.9
Mount Baldy	9000	3/30	64	18.1	22.8	21.2
Soldier Ranger Station	6100	3/30	31	10.4	15.2	9.6
#Vienna Mine	8960	3/26	104	36.9	--	38.7

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- + Aerial Snow Depth Gage
- ⬆ Soil Moisture Station
- ⌚ Temperature Gage
- ⌚ Precipitation Gage
- ⚡ Radio Telemetry

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

MIDDLE SNAKE RIVER BASIN NORTHSIDE

LITTLE LOST RIVER

13E5M	I	Fairview Guard Station	27	12N	26E	6750
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6	I	Moonshine	31	13N	26E	7450
13E4	I	Sawmill Canyon	17	12N	26E	6900
13E7MP	I	Wet Creek Summit	15	8N	25E	7600

BIG LOST RIVER

13F3	I	Bear Canyon	26	5N	21E	7920
13F2A	I	Copper Basin	24	6N	21E	7650
13F8A	I	Fishpole Lake	28	4N	22E	9350
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6800
14F3A	I	Lost Wood Divide	19	6N	19E	7900
14F2A	I	Stickney Mill	9	6N	19E	7500
13F1	I	White Knob	25	7N	23E	7700

BIG WOOD RIVER

15F9	I	Camas Creeks Divide	11	2S	9E	5720
14F8	I	Dollarhide Summit	16	3N	15E	8620
14F1M	I	Galena	3	6N	15E	7300
14F12MPS	I	Galena Summit	33	7N	15E	8795
14F5	I	Graham Ranch	10	5N	17E	6200
14F7	I	Mascot Mine	8	4N	20E	7900
14F9	I	Mount Baldy	26	4N	17E	9000
14F11	I	Soldier Ranger Station	19	2N	14E	6100

LITTLE WOOD RIVER

13F4	I	Garfield Ranger Station	11	3N	21E	6554
13F5	I	Muldoon	25	3N	21E	6300
13F9R	I	Swede Peak	4	3N	21E	7650

FISH CREEK

13F10	I	Iron Mine Creek	32	3N	23E	6370
13F6	I	Telfer Ranch	12	2N	22E	6000

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

BOISE RIVER

15F4APS	I	Atlanta Summit	23	5N	10E	7500
15F2	I	Bad Bear	35	7N	6E	5500
16F4	I	Bogus Basin Road	32	5N	3E	5360
14F10	I	Couch Summit	9	2N	14E	6950
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14PSR	I	Graham Guard Station	9	7N	10E	5690
15E9AP	I	Jackson Peak	7	8N	9E	7000
15F1MPSR	I	Moore's Creek Summit	19	7N	7E	6100
15F6P	I	Prairie	13	2N	7E	4900
15F3A	I	Road Creek	5	5N	8E	5550
15FAPS	I	Trinity Mountain	6	3N	9E	7780

CANYON CREEK

15F7	I	Bennett Mountain	7	2S	9E	6650
15F12	I	Little Camas Flat	21	1S	9E	4950

PAYETTE RIVER

16F2PS	I	Bogus Basin	16	5N	3E	6120
15E8PSR	I	Cozy Cove	19	11N	7E	5400
15E3	I	Crawford Ranger Station	21	14N	4E	4800
15E10	I	Deadwood Airstrip	8	11N	7E	5440
15E7	I	Deadwood Dam	8	11N	7E	5290
15E4AS	I	Deadwood Summit	23	14N	7E	7000
16E4	I	High Valley Summit	9	10N	2E	5170
15E1	I	Lake Fork	3	18N	4E	6000
16E1	I	Rock Flat Summit	1	18N	2E	5200
15D1	I	Secesh Summit	34	22N	4E	6520
15D2	I	Squaw Meadow	5	21N	4E	5800
16E3	I	Tripod Summit	17	11N	3E	5200

WEISER RIVER

16D1P	I	Boulder Creek	15	20N	1W	5500
16E2	I	Placer Creek	15&16	17N	3W	6000

MANN CREEK

16E9	I	Mann Creek	20	15N	5W	6080
16E8	I	Sturgill Ridge	21	15N	5W	6800
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
17E2	I	Thorson Cabin	12	14N	6W	5320

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
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10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

V

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average

CANYON CREEK

Bennett Mountain	6650	3/29	62	20.1	24.2	17.5*
#Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
Little Camas Flat	4950	3/25	28	9.0	9.3	--

BOISE RIVER

Atlanta Summit	7500	3/30	98	35.9	40.4	36.0
Bad Bear	5500	3/31	51	18.7	20.8	13.2*
#Bennett Mountain	6650	3/29	62	20.1	24.2	17.5*
#Bogus Basin	6120	3/31	68	23.7	32.5	24.2
Bogus Basin Road	5360	3/31	10	3.8	12.0	1.4
#Camas Creeks Divide	5720	3/25	37	13.0	15.8	--
Couch Summit	6950	3/30	59	17.6	23.6	19.0
Deadman Gulch	5600	3/25	62	19.2	--	15.4*
#Dollarhide Summit	8620	3/29	69	22.2	28.6	24.6*
Graham Guard Station	5690	3/30	61	20.7	23.0	--
Jackson Peak	7000	3/30	93	35.5	37.7	32.4
#Little Camas Flat	4950	3/25	28	9.0	9.3	--
Moore's Creek Summit	6100	3/31	74	38.9	42.2	33.3
Prairie	4900	3/28	31	10.0	9.6	2.8
Road Creek	5550	3/30	37	12.4	--	8.1
#Soldier Ranger Station	6100	3/30	31	10.4	15.2	9.6
Trinity Mountain	7780	3/30	109	41.1	52.2	42.9
#Vienna Mine	8960	3/29	104	36.9	--	38.7

PAYETTE RIVER

#Big Creek Summit	6600	3/26	108	41.5	43.2	37.4
Bogus Basin	6120	3/31	68	23.7	32.5	24.2
#Brundage Mountain	7560	3/30	134	52.2	53.8	49.1*
Cozy Cove	5400	3/30	54	19.2	21.2	16.2
Crawford Ranger Station	4800	3/26	25	9.0	13.0	6.3
#Deadman Gulch	5600	3/25	62	19.2	--	15.4*
Deadwood Airstrip	5440	3/30	52	17.7	21.4	15.3
Deadwood Summit	7000	3/30	120	45.7	50.7	47.0
High Valley Summit	5170	3/25	54	17.1	18.9	11.8*
#Jackson Peak	7000	3/30	93	35.5	37.7	32.4
Lake Fork	6000	3/27	62	20.2	22.0	16.1
Rock Flat Summit	5200	3/30	63	19.0	22.5	18.6
Secesh Summit	6520	3/27	102	37.7	42.7	37.6*
Squaw Meadow	5800	3/27	102	36.8	42.6	37.6
Tripod Summit	5200	3/25	72	24.3	25.4	18.3*

WEISER RIVER

Boulder Creek	5500	3/30	69	25.0	32.0	24.8
Placer Creek	6000	4/1	62	18.8	22.2	18.2

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

MANN CREEK

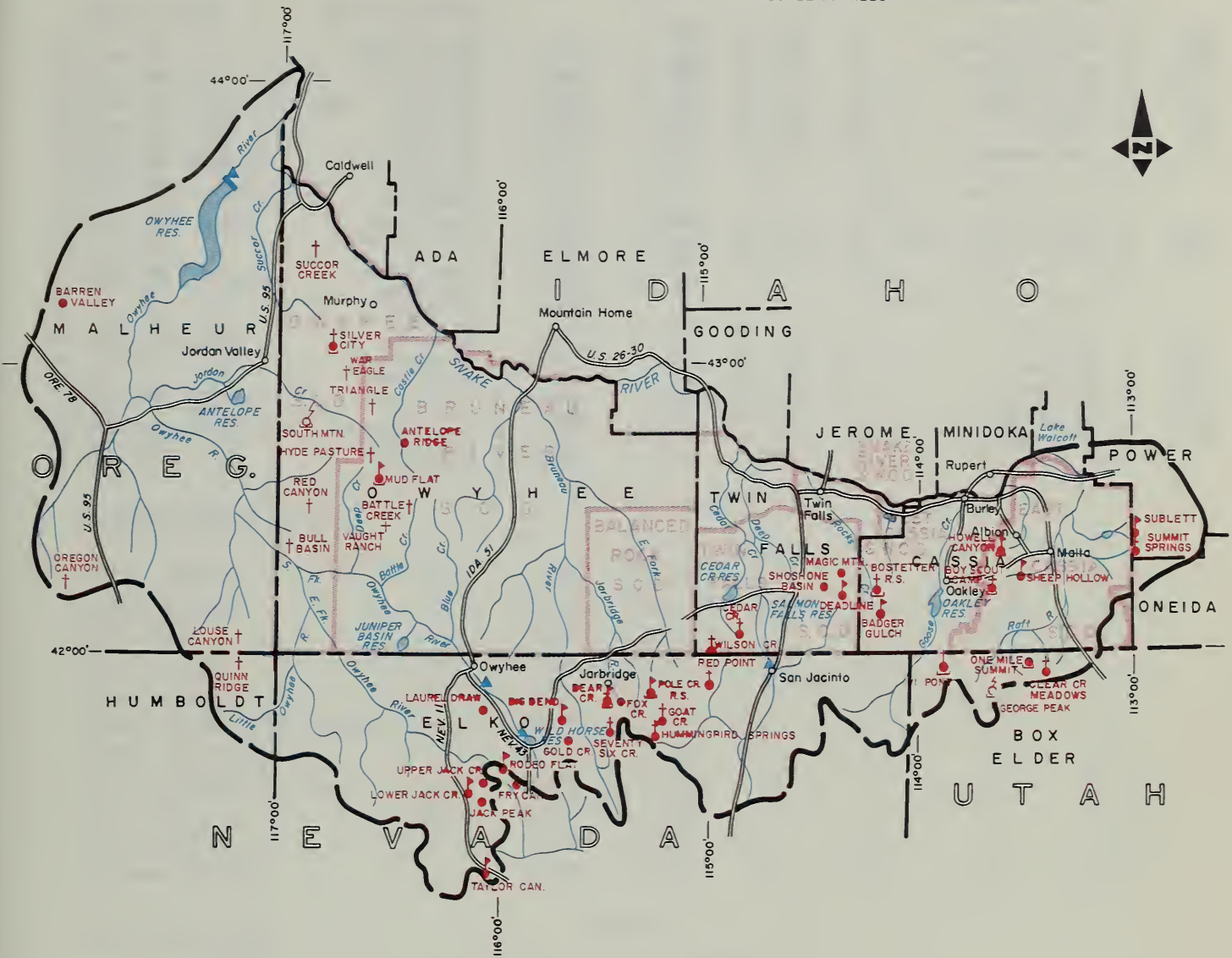
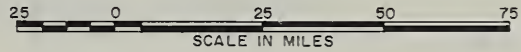
Mann Creek	6080	4/2	67	23.5	33.3	--
Robinson Creek Ridge	6220	4/2	51	16.3	29.0	--
Sturgill Ridge	6800	4/2	76	28.1	39.4	--
Thorson Cabin	5320	4/2	47	16.0	22.6	--

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>LITTLE LOST RIVER</u>							
Wet Creek Summit	8175	48	17.1	3/30	13.0	12.4*	13.2
<u>BOISE RIVER</u>							
Bogus Basin Road	4830	48	7.1	3/31	5.6	--	5.6
*Partially Frozen							

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN SOUTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- ⊙ Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- † Aerial Snow Depth Gage
- ⬆ Soil Moisture Station
- ⌚ Temperature Gage
- ⌚ Precipitation Gage
- ⚡ Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

13G2AP	I	Boy Scout Camp	8	14S	24E	7760
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13H4SP	U	George Peak	4	13N	14W	9000
13G1MP	I	Howell Canyon	2	13S	24E	8000
13H1P	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
12G8M	I	Sublett	8	12S	30E	6000
12G9A	I	Summit Springs	15	13S	30E	6400

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1AP	I	Bostetter Ranger Station	35	14S	19E	7500
13H3AP	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14G2	I	Magic Mountain	14	14S	18E	6700
15H18A	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2A	I	Wilson Creek	24	16S	12E	7500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

BRUNEAU RIVER

15H1MAP	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8950
15H14MP	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	17S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
16G10a	I	Bull Basin	19	12S	5W	5600
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE 1/4 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7MP	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11ap	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3AP	I	Silver City	6	5S	3W	6400
16G1PSR	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4a	I	Triangle	N 1/2 35	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12a	I	Vaught Ranch	10	11S	1W	5950
16G13a	I	War Eagle	20	5S	3W	7700

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ⁶

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

Boy Scout Camp		7760	3/30	47	15.0	19.5	15.0
Clear Creek Meadows	Utah	9050	3/30	59	18.0	30.4	21.6*
George Peak	Utah	9000	3/30	71	25.2	--	--
Howell Canyon		8000	3/30	83	32.3	33.3	25.7
One Mile Summit	Utah	7330	3/30	22	5.3	8.0	8.0*
Sheep Hollow		6200	3/30	25	7.6	7.2	4.8*
Sublett		6000	3/31	41	12.6	17.1	10.3
Summit Springs		6400	3/30	41	13.5	15.8	9.2

GOOSE CREEK

Badger Gulch		6660	3/30	45	14.4	17.9	12.0
Bostetter Ranger Station		7500	3/29	71	24.0	25.8	19.5
Vi Pont	Utah	7670	3/30	52	17.5	16.5	14.4*

SALMON FALLS CREEK

#Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Cedar Creek		7000	3/31	40	13.3	12.8	9.3
Deadline		6900	3/30	77	28.0	27.4	22.9
#Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Goat Creek	Nev.	8800	3/31	59	18.4	21.0	18.8
#Hummingbird Springs	Nev.	8945	3/31	75	22.9	26.4	23.7
Magic Mountain		6700	3/30	66	22.1	22.6	18.7
#Pole Creek R. S.	Nev.	8330	3/31	75	24.7	29.2	20.6
Red Point	Nev.	7940	3/31	0	0.0	--	10.2*
Shoshone Basin		5740	3/30	30	10.2	9.7	3.7*
Wilson Creek		7500	3/31	36	10.3	13.2	12.1*

BRUNEAU RIVER

Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Hummingbird Springs	Nev.	8945	3/31	75	22.9	26.4	23.7
Pole Creek Rgr. Sta.	Nev.	8330	3/31	75	24.7	29.2	20.6
#Seventy-six Creek	Nev.	7100	3/31	41	12.4	15.8	11.6*

OWYHEE RIVER

Antelope Ridge		5900	3/26	18	6.8	13.0	5.5*
Battle Creek (A)		5700	3/30	12	3.8	5.2	1.8*
#Bear Creek	Nev.	7800	3/31	69	22.8	28.3	20.8
Bull Basin (A)		5600	3/30	0	0.0	1.1	0.5*
#Fox Creek	Nev.	6800	3/31	36	11.6	--	10.0*
Hyde Pasture (A)		5800	3/30	12	3.8	10.5	3.0

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
Mud Flat	5500	3/26	22	7.9	10.2	4.4
Red Canyon (A)	6650	3/30	21	6.7	11.9	4.6*
#Seventy-six Creek Nev.	7100	3/31	41	12.4	15.8	11.6*
Silver City	6400	3/31	54	17.4	22.0	15.1
South Mountain	6340	4/3	41	14.8	20.5	12.4
Succor Creek (A)	6100	3/30	29	9.3	12.6	4.6*
Triangle (A)	5150	3/30	0	0.0	0.0	.2*
Vaught Ranch (A)	5950	3/30	12	3.8	6.3	1.3
War Eagle (A)	7700	3/30	75	28.5	26.9	22.2*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>RAFT RIVER</u>							
Howell Canyon	8000	48	11.5	3/30	7.8	8.2	--
Sheep Hollow	6200	36	7.5	3/30	6.8	6.4	--
Sublett	6000	36	7.0	3/30	6.1	--	--
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	3/30	6.0	5.6	--
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	3/30	6.6	5.8	7.1
Patrick Ranch	5720	36	7.4	3/31	7.7	6.9	--
Pole Creek R. S.	8330	48	9.7	3/31	7.6	7.1	8.1
<u>BRUNEAU RIVER</u>							
Bear Creek	7800	72	16.9	3/31	11.4	--	13.4

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN



25 0 25 50
SCALE IN MILES

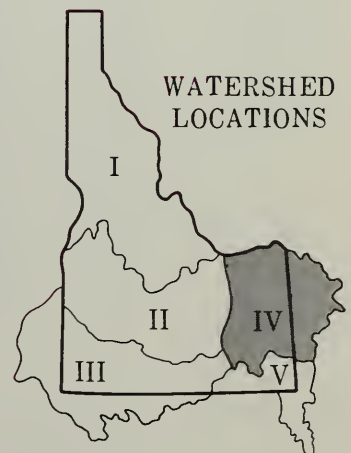


LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
-
-

- Snow Course
- Snow Course and Snow Pressure Pillow
- Snow Pressure Pillow
- Aerial Snow Depth Gage
- Soil Moisture Station
- Temperature Gage
- Precipitation Gage
- Radio Telemetry

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
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UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44° 17'	110°	38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	8600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44° 09'	110°	33'	7600
10F17MP	Wy	East Rim Divide #2	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9PS	Wy	Lewis Lake Divide	44° 13'	110°	40'	7900
10F4MP	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8P	Wy	Salt River Summit	32	29N	118W	7900
10E12MP	Wy	Snake River Station	9	48N	115W	6780
10F20M	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44° 22'	110°	35'	7900
10F9MP	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

11E9	I	Big Springs	34	14N	44E	6400
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	8125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	7000
11E8M	I	Valley View	7	15N	44E	6500
11E36	I	White Elephant	17	14N	43E	7700

NO.	STATE	NAME	SEC. LAT.	TWP. OR AND	RGE.	ELEV.
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TETON RIVER

10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Garns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6800
10F27	Wy	Miles Creek	13	44N	118W	7300
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6650
10F13	Wy	Teton Pass W. S.	24	41N	118W	8400

CAMAS - BEAVER CREEK

11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

11F10	I	Aspen Grove	35	2N	41E	6600
11F3	I	Birch Creek	36	2N	41E	6800
11F17I	I	Blue Ridge	35	2S	39E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7100
11F14	I	Mud Creek	3	2S	39E	7150
11F11R	I	Sheep Mountain	33	2S	41E	6510
11F5R	I	Tex Creek	6	1S	42E	6700

SAND CREEK

11F6	I	Henry Creek	7	1S	39E	5650
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BLACKFOOT RIVER

11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G5PS	I	Slug Creek Divide	15	10S	44E	7225
11G1MS	I	Somsen Ranch	25	5S	43E	7000
11G29	I	Ten Mile Pass	8	8S	41E	6250

PORTNEUF RIVER

12G5	I	Dempsey Creek	17	10S	38E	6280
12G6M	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Blue Ledge Mine	6700	3/31	50	16.4	22.4	17.2
Camp Creek	6800	3/29	33	8.3	14.6	10.4
Kilgore	6200	3/31	34	10.9	14.4	10.9

HENRYS FORK RIVER

Big Springs	6400	3/31	68	24.6	22.6	21.3
Black Canyon	7850	3/31	107	44.6	37.6	34.0*
Black Moose	8125	3/31	115	48.2	44.2	39.8*
Grassy Lake	Wyo. 7230	3/29	126	50.3	37.2	35.0
Island Park	6315	3/31	60	21.5	20.8	16.4
Latham Springs	7630	3/31	106	44.4	37.4	32.6*
Lucky Dog	6900	3/31	75	29.4	29.4	24.2*
Sawtell Mountain	8720	3/31	98	36.8	35.2	35.3*
Targhee Pass	7000	3/31	55	19.3	17.5	16.2*
Valley View	6500	3/31	58	21.6	19.2	17.7
White Elephant	7700	3/31	81	30.4	27.7	--

TETON RIVER

Darby Canyon	Wyo. 8250	3/31	88	31.2	25.3	--
Freds Mountain	Wyo. 8150	3/31	97	33.8	24.8	--
Garns Mountain	8300	3/30	127	47.6	43.8	--
Indian Meadows	Wyo. 8240	3/31	127	48.1	40.6	--
Jackpine Creek	Wyo. 7350	3/31	86	30.6	24.7	--
McRenolds Reservoir	6800	3/31	80	27.9	22.9	--
Miles Creek	Wyo. 7300	3/31	52	17.0	15.1	--
Phillips Bench	Wyo. 8200	3/26	100	36.0	35.7	--
Pine Creek Pass	6750	3/30	76	25.0	20.2	17.7*
State Line	6650	3/30	63	20.3	17.5	14.9
Teton Pass W.S.	Wyo. 8400	3/30	93	35.7	28.7	--

WILLOW CREEK

Aspen Grove	6600	3/30	58	18.2	13.5	11.3*
Birch Creek	6800	3/30	51	17.2	15.4	13.9*
Blue Ridge	6800	3/30	68	23.5	22.7	--
Bone	6200	3/30	35	11.5	8.9	6.8*
Brockman Station	6430	3/30	45	14.8	13.7	--
Hell Creek	7100	3/30	56	19.2	17.6	--
Mud Creek	7150	3/30	60	20.2	16.5	--
Sheep Mountain	6510	3/30	59	19.2	14.5	13.3*
Tex Creek	6700	3/30	50	14.9	11.6	9.2*

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation W Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

SAND CREEK

Henry Creek	5650	3/29	19	5.8	4.6	0.9*
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BLACKFOOT RIVER

Austin Bros. Ranch	6400	3/31	40	13.1	10.6	8.8
Slug Creek Divide	7225	3/29	68	22.3	20.2	17.3
Somsen Ranch	7000	3/31	65	19.8	17.2	13.5
Ten Mile Pass	6250	3/31	38	12.9	6.7	--

PORTNEUF RIVER

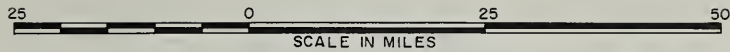
Dempsey Creek	6280	3/30	52	16.0	18.0	12.4
Lower Pebble	5800	3/30	60	19.5	16.9	12.8*
Mink Creek	6300	3/31	68	23.2	25.7	17.4
Pebble Creek	6550	3/30	57	19.5	19.2	16.7

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	3/31	9.7	--	10.9

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burt's-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK

11G16	I	Giveout	2	12S	45E	6840
11G20	I	Little Beaver	26	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7500
11G18	I	Montpelier Creek	22	12S	45E	6570
11G26	I	Upper Home Canyon	31	11S	45E	8500
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14A	I	Dry Basin	30	13S	42E	7900
11G6MP	I	Emigrant Summit	21	12S	42E	7350
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8S	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100
11G28	I	Worm Creek	28	14S	41E	6660

MALAD RIVER

12G13	I	Cliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6400
12G4	I	Dry Creek Flat	28	13S	37E	6480
12G11	I	Lower Elkhorn	30	12S	36E	7000
12G3	I	Oxford Mountain	27	13S	37E	6800
12G10	I	Upper Elkhorn	25	12S	35E	7100

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7s	PRESSURE PILLOW ONLY.
10J7S	SNOW COURSE AND PRESSURE PILLOW.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7m	SOIL MOISTURE STATION ONLY.
10J7a	AERIAL MARKER ONLY.
10J7p	STORAGE PRECIPITATION GAGE ONLY.
10J7R	RADIOACTIVE GAGE

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b

GREAT BASINBEAR RIVER

Emigrant Summit	7350	3/29	81	28.0	28.6	25.4
Emigration Canyon	6500	3/29	45	15.4	13.5	10.7

Montpelier Creek

Giveout	6840	3/29	55	16.9	14.9	12.5*
Little Beaver	6970	3/29	63	19.7	17.6	16.1*
Lower Home Canyon	7500	3/30	54	17.7	16.6	--
Montpelier Creek	6570	3/29	37	11.1	10.2	8.4*
Upper Home Canyon	8500	3/30	86	30.9	25.7	--
Whiskey Flat	6985	3/29	32	9.9	11.7	9.3*

Mink Creek

Christensen Ranch	5600	3/30	40	13.3	10.6	7.1
Dry Basin	7900	3/30	92	33.5	32.6	30.0*
#Emigrant Summit	7350	3/29	81	28.0	28.6	25.4
Horseshoe Basin	8000	3/30	86	30.0	27.4	28.1*
Liberty Spring	8600	3/30	113	42.0	40.8	40.1*
Strawberry Creek	5800	3/29	43	13.6	13.5	10.0
Strawberry Mink Divide	6800	3/30	68	24.2	26.4	21.5

Cub River

Cub River R. S.	5400	3/30	38	14.5	12.0	6.1
#Franklin Basin	8000	3/30	81	30.8	28.7	28.0
Willow Flat	6100	3/30	55	21.2	20.4	14.4
Worm Creek	6660	3/30	63	23.9	25.3	--

MALAD RIVER

Cliff Canyon	7200	3/30	35	10.6	13.3	--
Daniels Creek	6400	3/30	30	9.7	5.9	--
Dry Creek Flat	6480	3/30	30	10.8	11.0	3.3
Lower Elkhorn	7000	3/30	43	15.2	17.6	13.1*
Oxford Mountain	6800	3/30	40	12.1	13.0	8.9
Upper Elkhorn	7100	3/30	60	20.0	22.2	18.7*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>Montpelier Creek</u>							
Giveout Pass	7025	36	9.4	3/29	6.6	--	8.1
Jenson Ranch	6580	48	18.7	3/29	12.6	--	16.0

(b) 1958-72, 15 year period. #Not located directly on this drainage. * Estimated 1958-72, 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

